

Abstract

The invention relates to a process of modification of the nitrogen oxides metabolism by means of modification of the micellar catalysis parameters of NO oxidation. According to the invention, the number of phases and/or the volume ratio of the phases and/or the coefficients of distribution of NO and O₂ between the phases are modified. The number of phases is modified by using perfluorocarbons, haloid derivatives thereof and perfluoralkylamines with a high coefficient of distribution of NO and O₂, which are used as a hydrophobic phase for micellar analysis. The invention also relates to compositions used to vary the output of nitrite, nitrate, nitrosothiols and other oxidation products, whereby said compositions include emulsions of perfluororganic compounds, catalysts and inhibitors of excessive nitrosation, reducers, free radical scavengers and nitrosation targets which modify the balance of the nitrosated biogeneous compounds. The inventive methods for acting on a patient's organism include using such compositions together with variations in temperature and moisture and with traditional drugs. Independent claims in this invention also relate to the use of the known blood replacement substances containing perfluorated compounds and of the steam bath or the sauna in order to accelerate NO oxidation.